West Hill Concurrent CIP Table

Introduction:

The concurrent CIP table lists all projects that have been completed during the preparation of the West Hill Drainage Study. The following list also includes pending projects that are funded and scheduled for construction in the near future. The following list also includes information on "other" work in progress in the West Hill area; this would include updates on other concurrent studies mentioned in the West Hill Drainage Study or any new information that is relevant to this drainage study.

Spear Drainage Project – The Spears property, located at 8735 South 117th Place, was severely impacted by a failing private steel drainpipe installed across their steep front yard many years ago. Impacts included damage to their access stairs from the street above, damage to their home's basement and wooden deck foundation, garden and yard erosion. In order to minimize disturbance to the steep slope, the old steeply sloped pipe was TV inspected and then slip lined with a smaller pipe inside the old leaky pipe. Mrs. Spears is delighted with the results of the project, which substantially reduced the drainage impacts on her property. The work was completed as part of the King County WLRD Neighborhood Drainage Assistance Program in July of 1997. The problem is listed in Section 3.3, Project 3 – Future Capital Improvement Projects and Actions.

Saunders Drainage Project – This project routed flows safely down an alley and through two properties to the street below, eliminating flooding of several yards and one finished basement located near 10831 Auburn Ave. S (between Crestwood Dr. S. and Woodley Ave. S). Several local residents called in their thanks for a job well done. The work was completed as part of the King County WLRD Neighborhood Drainage Assistance Program in December of 1997.

Taylor Creek Restoration Projects – Phase 2 and Phase 3 - The Taylor Creek Restoration Projects consist of three phases, including the construction of two regional retention/detention facilities in the Taylor Creek Basin and a third phase which includes stream restoration and fish passage work in the main channel. The project is discussed in Section 3.3, Project 16 – Future Capital Improvement Projects.

The Taylor Creek phase 3 project is currently being implemented by the City of Seattle. The City of Seattle project would include construction of a fish passage and habitat improvement project beginning at the mouth of Taylor Creek and extending past 68th Avenue South. This project would also include additional stream improvements along the mainstem of Taylor Creek. The findings from their design report indicate that the habitat improvements will require flow control in the upper basin. The City of Seattle report was similar to the recommendations from the West Hill Drainage Report.

The second project is the Taylor Creek Phase 2 project as discussed in the West Hill Drainage Report; this project would be located adjacent to, and southerly of, Renton Avenue. The project will require:

- Use of the road embankment to impound storm water. This will require a geotechnical analysis of the road embankment by King County Department of Transportation.
- Coordination with the developer, which will include on site drainage modifications and cost offsetting for the r/d pond.
- Coordination with the City of Seattle; this will include implementation of the City of Seattle's downstream restoration work (the Phase 3 work). This work will be mitigation for the Phase 2 project.
- Survey of the site.
- Impact mitigation for the utilities at the project site.
- Procurement of easements from private property owners for the area to be impounded.
- Permit acquisition from King County DDES for construction of the project.

At this time King County has complete preliminary design of the Taylor Creek Regional facility and is working with the City of Seattle to receive ESA concurrence. The initial submittal with the COE required questionable revisions to the ESA submittal. The USCOE/ESA pre-application meeting was not productive; the project will improve coho and chum habitat, which directly competes with Chinook. This would be construed as jeopardizing the species. The City of Seattle has taken the lead on procuring right of way, and has currently purchase two of the four parcels required for construction of the detention facility.

Rosenthal Drainage Project (7517 S. Lakeridge Dr.) - Drainage from uphill properties impacted three residential properties including ponding in the alley access and parking areas, wet yards and one wet basement. This project regraded 120 feet of an alley to route storm water to a new catch basin that was piped via a 6" drain pipe northwest to the drainage system on Crestwood Drive S. The work was completed as part of the King County WLRD Neighborhood Drainage Assistance Program in February of 1998. The project substantially reduced the drainage impacts and King County staff received a letter of appreciation from the project residents.

Renton Ave. Drainage Project – King County Roads Maintenance completed an upgrade to the drainage collection system on the Northeast side of Renton Avenue near SE 133 Street. The work was completed as part of the road overlay program. The work was complete November of 1998. The extent of the problem is discussed in Section 3.3, Project 5 – Future Capital Improvement Projects and Actions.

Allentown Acres Drainage Improvement (56th Pl. South near 57th Ave. S) - Surface water collects in a closed depression along the frontage of four homes near 12241 56th Place South (Lloyd Residence). A storm drainage system was placed within KC right-

of-way that transported the flow to a nearby drainage ditch. Construction was completed in 1999. The extent of the problem is discussed in Section 3.3 of the West Hill Drainage Report, Project 6 – Future Capital Improvement Projects and Actions.

59th Ave. S. Drainage Project (between 112 St. & 118 St.) – The area has safety concerns, road degradation, and maintenance costs due to the lack of a road drainage system. An asphalt gutter has been recently been constructed along the east side of the street to direct flows away from the front of the properties. This work was completed by King County Roads Maintenance. The extent of the problem is discussed in Section 3.3, Project 1– Future Capital Improvement Projects and Actions.

S 129th St. Drainage Project (between MLKJ Way and 64th) – Water seeps over a sidewalk causing safety concerns, maintenance expense, and road degradation. The project will collect the seepage in a 4" drain and rout the flows to a nearby drainage system. Construction of this project was completed in December of 1998 as part of the West Hill NDA program. The extent of the problem is discussed in Section 3.3, Project 18 – Future Capital Improvement Projects and Actions.

S. 123 Pl. Drainage Improvement (near 84th Avenue) – Uncollected road runoff flows onto adjacent properties, causing flooding problems. Springs located in the area and on the road cause safety concerns and road maintenance problems. The project will route the seepage and road runoff to a recently constructed drainage system. Construction of this project in planned for 1999, and will be completed as part of the West Hill NDA program The problem is listed in Section 3.3, Project 9 – Future Capital Improvement Projects and Actions.

11603 South 116th St. (McCalskey Residence) - The existing drainage system often reaches capacity, and then flows over-top the catch basin and flood nearby properties. The problem is discussed in Section 3.3, Project 7 – Future Capital Improvement Projects and Actions. The project was constructed in 1997.

59th Ave. South at South 120th St. - The existing drainage system consists of 12" pipe with no outfall. The project is discussed in Section 3.3, Project 17 – Future Capital Improvement Projects and Actions. The drainage problem has been forwarded to King County Department of Development and Environmental Services who have an open permit for the drainage on this site. The developer will be required to fix this problem prior to King County's acceptance of the drainage system. This area was viewed 1/17/01, and the problem has not yet been corrected. Further contact with DNR personnel

East Riverton Gardens Drainage Improvement Project – (*at MLKJ Way and S. 129th St.)* – Two existing open drainage channels combine with local runoff and drain to an 18" concrete pipe. The 18" pipe and the two open channels are undersized to carry the existing storm flows at this location. The project is discussed in Section 3.3,

Project 4 – Future Capital Improvement Projects and Actions. The project was constructed in December of 1998 as part of the West Hill NDA program.

Skyway Park Dr. Imp Project (at 74th Ave S. and S. 116th St.) – Runoff from Lakeridge Elementary school and local road runoff combine to flood three homes at this location. The project is currently in the design phase. The flooding solution will require a new drainage system to be constructed in this area. The project was constructed in 1999 as part of the West Hill NDA program.

CSO (Combined Sewer Overflow) Projects – One of the potential CSO's near 74th Ave S. and S. 116th St. was TV'ed as part of the preliminary design of the Skyway Park Drainage Improvement project. The potential CSO was found to have no connections to sewer.

66tb Ave. S Inlet Improvement and the 66th Ave. S near S. 128th St. Dr Imp Project: The existing 12/18" drainage system needs to be upgraded to a continuous 18" system. This project was not identified as problem because the WLRD Local Drainage Services Unit was reviewing the area as a Drainage Study. At the time the report was being reviewed all the files related to this area were not located as part of this study. This area was shown to be problematic as part of the hydraulic modeling, but because the area was not shown to have any drainage problems, it was not added to the CIP list. Since the report was published additional information has shown that the area has flooded. The homeowners at this location were interviewed, and they believe that recent work by the City of Seattle Water Department has corrected the problems with the drainage. There was concern with debris build up at the catchbasin and the maintenance to keep the inlet from becoming blocked. The 66th Ave. S Inlet Improvement added a low maintenance grate to the existing catch basin. The upgrade of the 12" pipe to 18" will not be re-evaluated until the residents request assistance (the area floods).

Beacon Coal Mine Drainage Project – Beacon Coal Mine Road is a recurrent flooding problem caused by an inadequate drainage system. A discussion of the Beacon Coal Mine problem is discussed in Section 3.3, Project 10 – Future Capital Improvement Projects and Actions. King County Roads Maintenance has enlarged the ditch along Beacon Coal Mine Road, and has cleaned the inlet and outlet to the two 18" culverts that cross the road. Also, at the request of KC WLRD, BNSF Railroad cleaned out their drainage ditches and culverts on their property. The roadway has not flooded since the work was completed 1997.

Coles Lakeview Drainage Improvement Project (Mulegeta Complaint) – This project was forwarded as an NDA project after completion of the Drainage Study. The project will construct a new drainage facility westerly of Renton Avenue near S. 110 Street. The project is scheduled for construction in summer 2001.

Pipeline Slipline at Martin Luther King Jr. Way to Beacon Coal Mine Road

All flows from Basin GR2 merge above Martin Luther King Jr. Way and are collected in a 36-inch RCP that drops 200 feet vertically and 500 feet horizontally to the Green River floodplain. The RCP is currently functioning without problems, but reinforced concrete pipe will separate when placed at steep slopes and under unstable soil conditions. The separated pipe will erode the pipe bedding, which will eventually lead to pipe failure. Failure of this pipe would be extremely costly and could be avoided by slip-lining the 500 feet of steep-slope RCP with continuously welded, high-density polyethylene pipe. The project site is currently in violation of King County Clearing and Grading Codes and as part of the restoration conditions, this property owner will be required to video tape the pipeline and assess the potential for damage to the pipe.

Beacon Coal Mine Sediment Pond - The outlet to Basin GR2 currently drains from a 36-inch reinforced concrete pipe (RCP). The 36-inch pipe then outlets to a small sediment pond, which drains to a 36-inch concrete culvert under Beacon Coal Mine Road. The existing sediment pond should be enlarged closer to the road. The outlet channel from the sediment pond should be graded to allow for a water quality swale. Maintenance of the pond could be transferred to the County and placed on an as-needed or yearly maintenance schedule. The project site is currently in violation of King County Clearing and Grading Codes and as part of the restoration conditions, this property owner may be required to complete this work.

Beacon Coal Mine Cleanup/Water Quality Project

One of the water pollution sources, and aesthetic nuisances, is the waste dumping that has occurred along Beacon Coal Mine Road. The water quality issues are associated with dumped refrigerators, car batteries, motor oil, and other contaminants. The cleanup project could be completed with volunteers, but equipment and equipment operators would be needed to move car bodies and to haul waste material from the site. The project site is currently in violation of King County Clearing and Grading Codes and as part of the restoration conditions, this property owner may be required to complete this work.